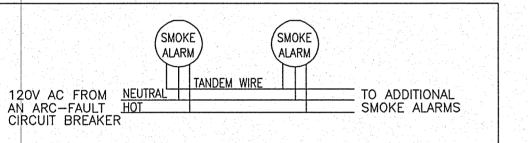
ELECTRICAL NOTES

- MINIMUM WIRE SIZE SHALL BE #12 THHN/THWN WITH THE EXCEPTION OF 15A GENERAL LIGHTING AND RECEPTACLE BRANCH CIRCUITS WHICH ARE #14 THHN/THWN.
- 2. CONDUCTORS #6AWG AND LARGER SHALL BE THW.
- 3. ALL CONDUCTORS SHALL BE COPPER.
- 4. FUSES (WHEN REQUIRED) SHALL BE DUAL ELEMENT, TIME DELAY TYPE.
- 5. ALL MATERIALS SHALL BE U.L. LISTED.
- 6. WORKMANSHIP SHALL BE TO BEST RESIDENTIAL PRACTICE.
- INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL, STATE
- 8. ALL LIGHT FIXTURES TO BE SELECTED BY OWNER/ARCHITECT AND INSTALLED BY CONTRACTOR. VERIFY LOCATION WITH ARCHITECT.
- RECESSED LIGHT FIXTURES OVER BATHTUB OR SHOWER SHALL BE COMPLETELY ENCLOSED AND SUITABLE FOR WET LOCATION
- 10. ALL LUMINARIES SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND CODE REQUIREMENTS.
- 11. RISER IS DIAGRAMMATIC ONLY. IT DOES NOT SHOW EVERY BEND REQUIRED FOR THE INSTALLATION.
- 12. THIS DRAWING IS A GUIDE FOR THE INSTALLATION OF ELECTRICAL WORK. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE A FUNCTIONING SYSTEM.
- 13. A/C EQUIPMENT WIRING, BREAKER AND FUSE SIZES ARE BASED ON A/C EQUIPMENT SPECIFIED ON CONTRACT DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL WIRING, BREAKER AND FUSE SIZES IN ACCORDANCE WITH A/C EQUIPMENT NAMEPLATE REQUIREMENTS IF DIFFERENT FROM THAT SPECIFIED ON DRAWINGS, AS WELL AS ANY FEEDER CHANGES BEING AFFECTED BY THIS CHANGE. CONTRACTOR SHALL MAKE ABOVE MENTIONED CHANGES AT NO EXTRA COST.
- 4. CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH OTHER TRADES IN ORDER TO FURNISH AND INSTALL ALL CONTROL WIRING AND RACEWAYS, ALL POWER CONTROL CIRCUITS WIRING AND RACEWAYS AS SHOWN ON THE AIR CONDITIONING DRAWINGS OR SPECIFICATIONS. IF AIR CONDITIONING DRAWINGS REFER TO MANUFACTURER'S WIRING DIA—GRAMS, THE CONTRACTOR SHALL VERIFY WITH SAID MANUFACTURER ALL REQUIREMENTS AND INCLUDE ALL RELATED WORK IN HIS CONTRACT.
- 15. AS OPTIONAL, PROVIDE A COMPLETE SECURITY SYSTEM PER OWNER'S REQUIREMENTS.

- 16. ALL WIRING DEVICES SHALL BE DECORATOR STYLE. COLOR AS SELECTED BY OWNER / ARCHITECT.
- 17. PROVIDE ALL FINAL CONNECTIONS TO ALL EQUIPMENT AND APPLIANCES, AS REQUIRED BY MANUFACTURER.
- 18. PROVIDE A COMPLETE TV PRE-WIRED SYSTEM.
- 19. COORDINATE LOCATION OF ALL DISCONNECT SWITCHES WITH OTHER TRADES TO ALLOW N.E.C. REQUIREMENTS CLEARANCES.
- 20. ALL COUNTER RECEPTACLES AND SWITCHES TO BE MOUNDED +6"
 ABOVE COUNTER (TO BOTTOM OF PLATE). UNLESS OTHERWISE NOTED
 OR DIRECTED BY OWNER / ARCHITECT
- 21. APPLIANCES RECEPTACLES TO BE MOUNTED WHERE REQUIRED BY
- 22. ALL LAVATORY RECEPTACLES TO BE MOUNTED +42" A.F.F. UNLESS OTHERWISE DIRECTED BY OWNER / ARCHITECT.
- 23. COORDINATE LOCATION OF AIR CONDITIONER (INDOOR UNIT) DISCONNECT SWITCH WITH A/C CONTRACTOR TO KEEP N.E.C. REQUIRED CLEARANCE.
- 24. RANGE AND DRYER SHALL HAVE NEUTRAL & GROUNDING WIRES PER NEC
- 25. SMOKE DETECTORS TO BE HARDWIRED TO AFCI CIRCUIT NON—SWITCHABLE, NON GFI LIGHTING CIRCUIT, INTERCONNECTED, WITH BATTERY BACKUP, TANDEM WIRED TO SOUND ALL DETECTORS SIMULTANEOUSLY. DO NOT INSTALL DETECTORS WITHIN 3 FT OF A/C DIFFUSER OR BATHROOM DOOR.
- 26. PROVIDE A COMPLETE PRE-WIRED TELEPHONE SYSTEM.
- 27. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT DIMENSIONS.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR COMPLETE ELECTRICAL SYSTEMS.
- 29. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IT WILL BE HIS RESPONSIBILITY TO SECURE AND PAY FOR ANY PERMITS, CERTICATES OF INSPECTION, ECT., AS REQUIRED.



SMOKE DETECTOR CONNECTION DETAIL

Miami Dade

0000709054

1-ALL SMOKE DETECTORS (MULTIPLE-STATION ALARM TYPE) SHALL BE HARDWIRED (125 VOLT TYPE), INTERCONNECTED AND PROVIDED WITH BATTERY BACK-UP.

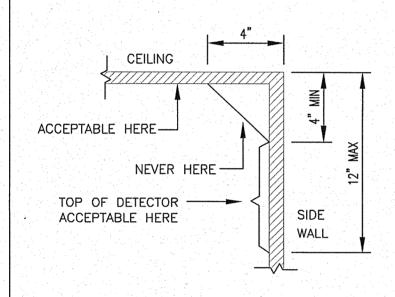
- 2-ALL BRANCH CIRCUITS THAT SUPPLY 125 VOLT TO SMOKE DETECTORS INSTALLED IN BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT AS PER NEC 210.12.
- 3-SMOKE DETECTOR SHALL NOT BE PLACED WITHIN 3FT. OF ANY A/C GRILL AND/OR WASHER. 4-SMOKE DETECTORS LOCATED OUTSIDE OF SLEEPING AREAS SHALL NOT BE PLACED CLOSER THAN 3FT.

ELECTRICAL BREAKER PANEL.

** GENERAL LTS # REC.

Steven Gilbert 11/15/2011 7:50:36 AM A

TO BATHROOM DOOR. 5-THE MOUNTING AND LOCATION OF UNIT SMOKE DETECTORS SHALL COMPLY WITH NFPA 72 SEC.2-5.2.1.6 . CEILING MOUNTS NOT LESS THAN 4" FROM A WALL-WALL MOUNTS NOT LESS THAN 4" FROM CEILING NOR MORE THAN 12" TO TOP OF DETECTOR. 6-IF SMOKE DETECTORS ARE MOUNTED WITHIN 20FT OF COOKING APPLIANCE THEY MUST BE OF THE PHOTOELECTRIC TYPE. 7-SMOKE DETECTOR SHALL BE LABELED SD ON THE TENANT



(FOR INSTALLATION NEAR A WALL OR IN CEILING)

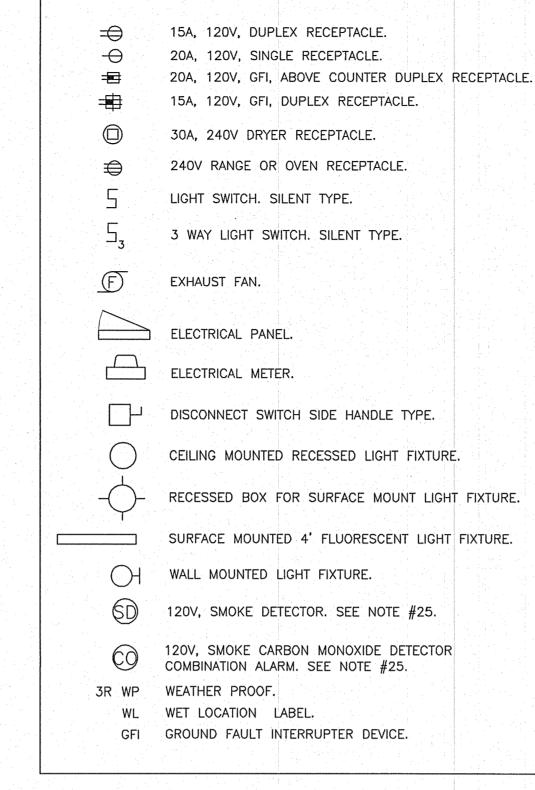
1_. DIMENSIONS SHOWN ARE TO THE NEAREST EDGE OF THE

2_. DETECTORS SHALL NOT BE INSTALLED WITHIN 3 FEET OF A SUPPLY AIR DIFFUSER OR FAN

	TYPE: 200 AMPS LOAD CENTER VOLTAGE: 120/240, 1PH., 3W MAINS: 150A. AIC RATINGS: 10K PANEL "A" (EXISTING)												MOUNTING: SURFACE FED FROM: ELECTRICAL METE				
	AMPS	POLES	101AL V.A.	COND. SIZE	WIRE	REMARKS	OKT NO.		OKT NO.	REMARKS	WIRE SIZE	COND.	TOTAL V.A.	POLES			
	15	1.	200	EXIST	EXIST	EXIST. GAS W.H. PILOT	IΑ		2	EXIST. RANGE	6	EXIST	10,000	2/	1		
	15	11/	**	1/2	14	NEW LTS/REC.	IB					LAIOT	10,000		L		
ø)△[20	1	est 🗱 en r	1/2	12	NEW FAMILY LTS/REC.]3A		4						1		
(ø)	20	1	i ilig ** ung	1/2	12	NEW BATH	3B								L		
	40	2/	(6,432)	EXIST	10	EXISTING CU-I	5	+	6	EXIT. AHU-1	6	EXIST.	11,256	2/	1		
	-						7	++	8								
		1-1-1				EXIST. SPACE	9	+	10	EXISTING DRYER	10	EXIST.	5,000	2/	1		
			id , at • id • .			EXIST. SPACE	11	+	12			:		/			
	15	1	**	EXIST.	E×15T	EXIT. LIVING	134		144	EXIST. BED-I LTS/REC.	14	1/2"	**	())	T		
	15	, 15.	**	EXIST.	EXIST.	EXIT. DINNING	13B		14B	EXIST. BED-2 LTS/REC.	14	1/2"	**	. 1	-		
	15	1	**	EXIST.	EXIST	EXIST. GEN LTS/REC	154		16A	EXIST. BED-3 LTS/REC.	14	1/2"	**	1	T		
	15	1	300	EXIST.	EXIST	EXIT. DISPOSAL	15B		16B	EXIST. GEN LTS/REC	14	1/2"	**	1	T		
	15	1	1,500	EXIST.	EXIST	EXIT. KITCHEN CIRCUIT	IJA		184	EXIST, MASTER L/REC	14	1/2"	**	- 1	T		
	15	11	1,500	EXIST.	EXIST	EXIT. KITCHEN CIRCUIT	пв		18B	EXIST. MASTER L/REC	14	1/2"	**	1 .	T		
	15	1	**	EXIST.	EXIST	EXIT. KITCHEN LTS	194		20	EXIST, SPRINK, PUMP	12	EXIST.	2,400	2/			
3111	læim	o De	11.500111	EXIST.	EXIST	EXIT. REFRIGERATOR	198]		12	E 151.	2,722	1/1	1		

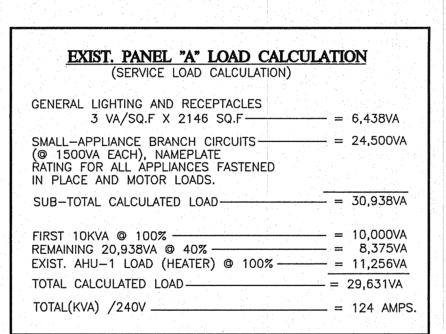
A AFCI TYPE C/B

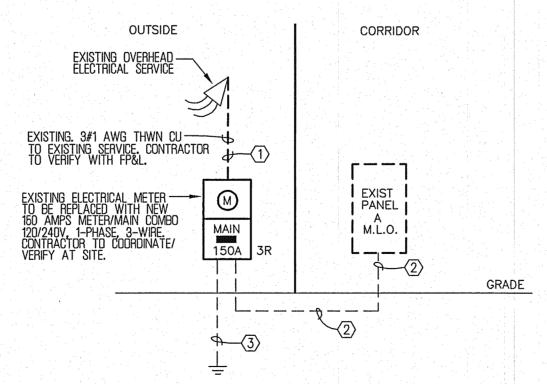
() NON-CONCURRENT LOAD (Ø) TAMPER PROOF RECEPTACLE



ELECTRICAL LEGEND

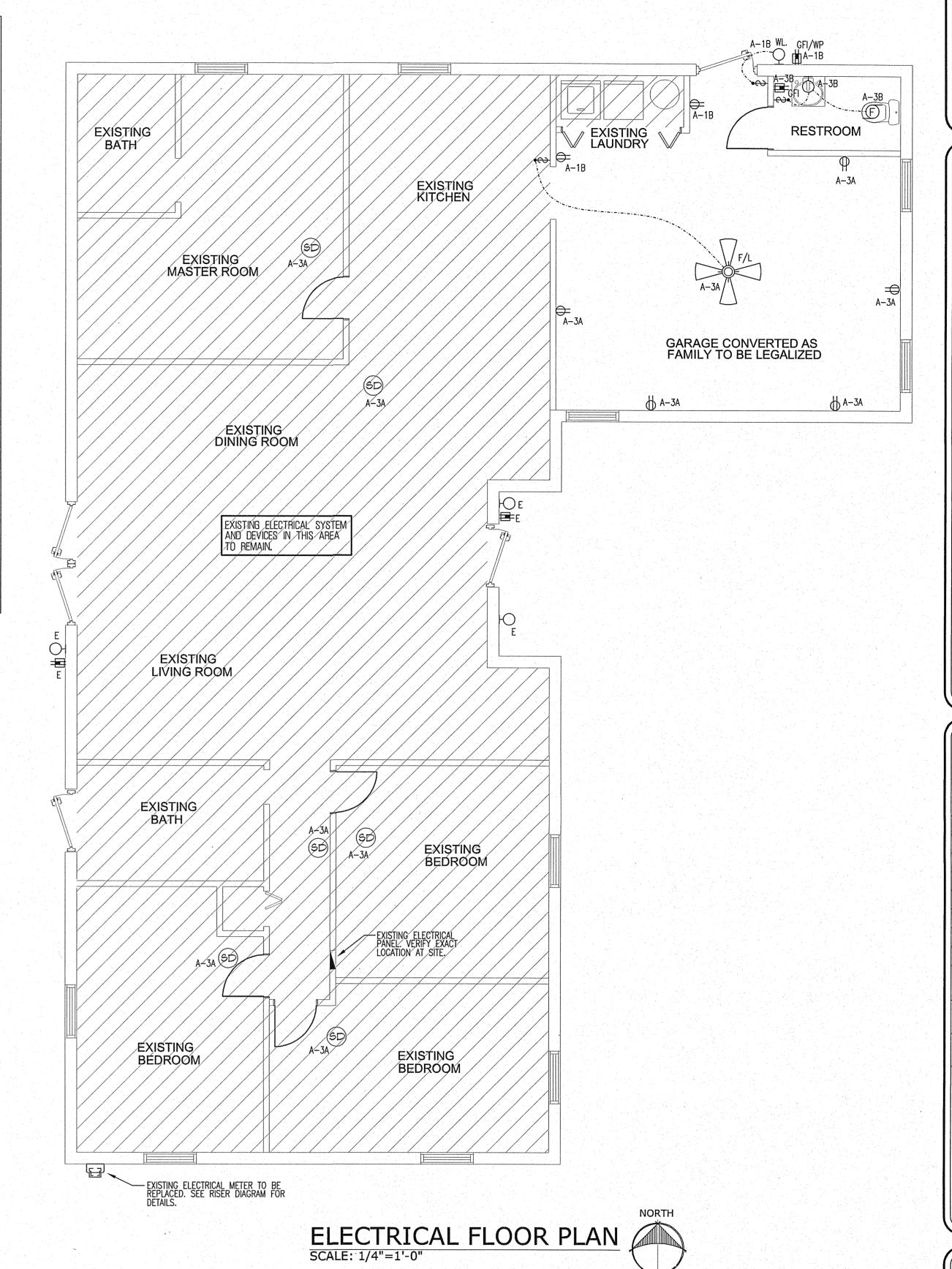
1-NEW AREAS CIRCUITS TO BE ARC FAULT 2-NEW OUTSIDE GFCI RECEPTACLES CIRCUITS TO BE W.R. TYPE & APPROVED COVER. 3-NEW RECEPTACLES TO BE TAMPER PROOF.





ELECTRICAL RISER DIAGRAM

	FEEDER SCHEDULE
 FEEDER	FEEDER SIZE
1	EXISTING. 3# 1 AWG THWN CU
2	EXISTING 3# 1 AWG THWN CU & 1#6(G). IN 1 1/2"C
3	EXISTING 1#6 AWG THW CU IN 3/4" C TO EXIST.



/!\ <u>CAUTION NOTES:</u>

- CIRCUIT BREAKERS SERVING ELECTRICAL RECEPTACLES IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS OR SIMILAR ROOMS AREAS MUST BE A.F.C.I. TYPE.
- 2- ALL RECEPTACLES LISTED IN NEC.210.52 (I.E. GENERAL PROVISIONS, SMALL APPLIANCES AND KITCHEN RECEPTACLES, RECEPTACLES IN BEDROOMS, RECEPTACLES IN BATHROOMS, OUTDOOR, LAUNDRY, HALLWAYS, GARAGES AND BASEMENTS, BALCONIES, DECKS, PORCHES) SHALL BE TAMPER PROOF AS PER NEC. 406.11
- 3- CONTRACTOR TO ASSURE ELECTRICAL INSTALLATION MEET ALL THE MINIMUM REQUIREMENT DESCRIBED IN THE NEC 2008 EDITION AND IN ELECTRICAL NOTES WHEN APPLICABLE.

PE. #68869 SHEET TITLE: ELECTRICAL FLOOR PLAN NOTES AND DETAILS

CARLOS TILLAN PROFESSIONAL . ENGINEER

CT ENGINEERING

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DATE: | NOV 07-2011

AS SHOWN

C.T.

REVISIONS:

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CHECKED BY: C.T.

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